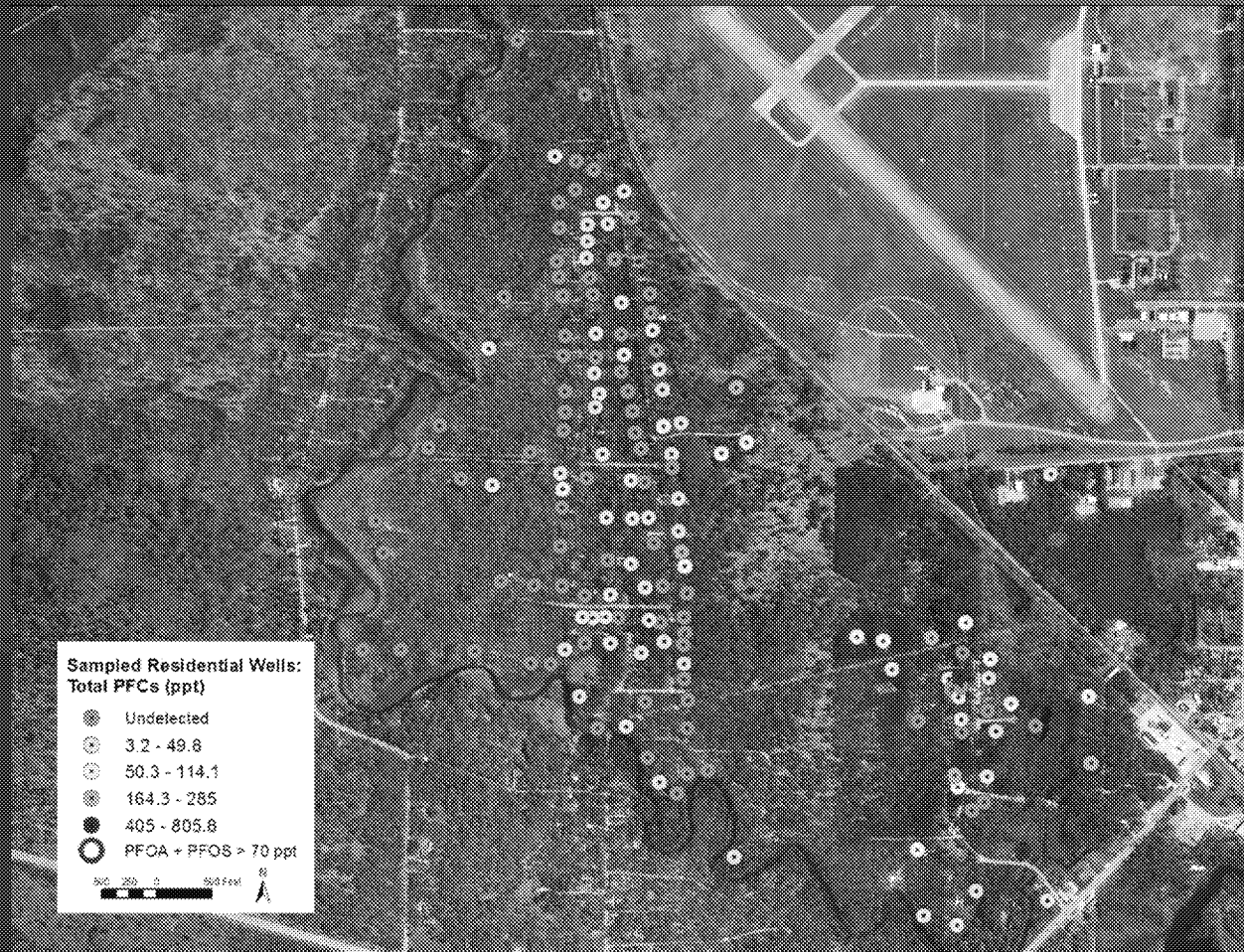


# MDHHS's Response to PFAS Sites

CHRIS BUSH, ACTING MANAGER, TOXICOLOGY AND RESPONSE

R5 SWP MEETING - SEPTEMBER 26, 2017

# Wurtsmith, Grayling, Belmont



# Drinking Water Results

- ▶ Wurtsmith
  - ▶ Almost all are below the EPA LTHA of 70 ppt (PFOA+PFOS)
  - ▶ One well about 3,300 ppt PFOA+PFOS (now on city water)
- ▶ Grayling
  - ▶ Most are below the LTHA
  - ▶ Four exceedances so far, highest = 188 ppt PFOA+PFOS
  - ▶ Potential impact to businesses
- ▶ Belmont
  - ▶ Highest PFOA+PFOS in drinking water in US: 38K ppt
  - ▶ Not AFFF, likely waterproof compound for shoe leather

# EPA Lifetime Health Advisory (LTHA) for PFAS

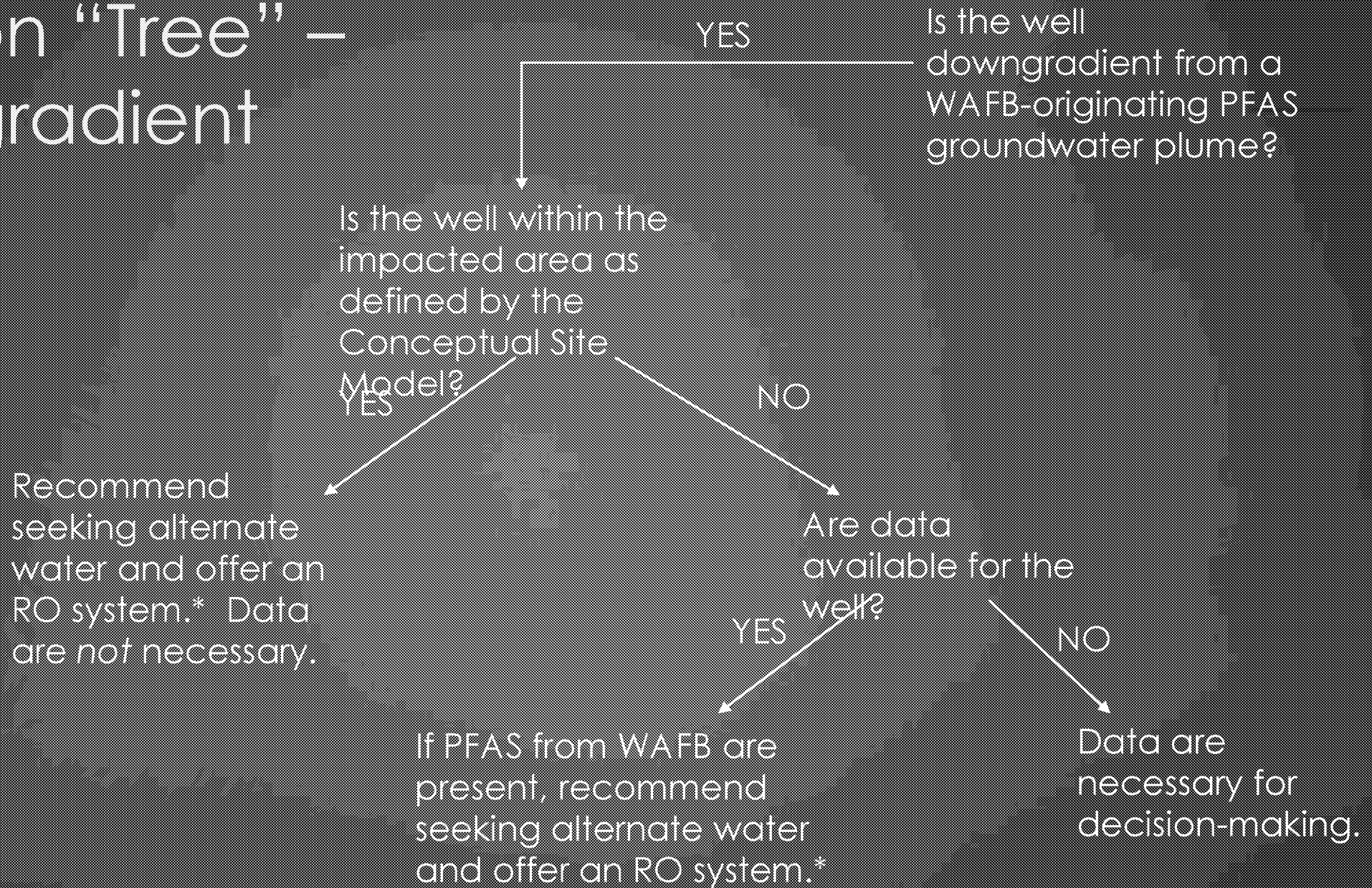
- ▶ PFOA
  - ▶ Key non-cancer study = developmental toxicity in mice (bone formation in fetus, accelerated puberty in male mice)
  - ▶ Cancer concerns = "C8" Study
- ▶ PFOS
  - ▶ Key non-cancer study = developmental toxicity in rats (decreased body weight in pups)



# MDHHS Decision Trees

- ▶ Is there a CSM or not?

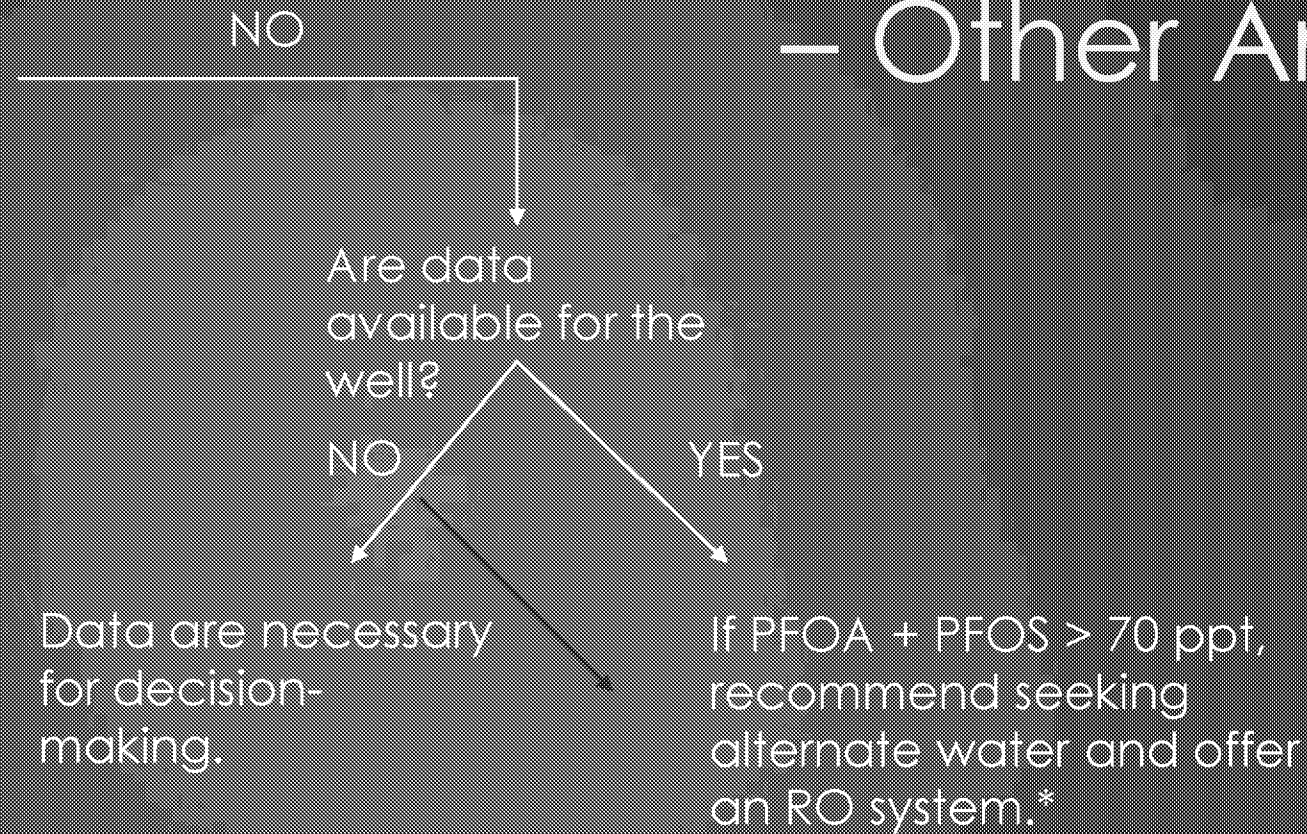
# Decision “Tree” – Downgradient



\*Well owners may choose to connect to township water, if that is currently available.

# Decision "Tree" – Other Areas

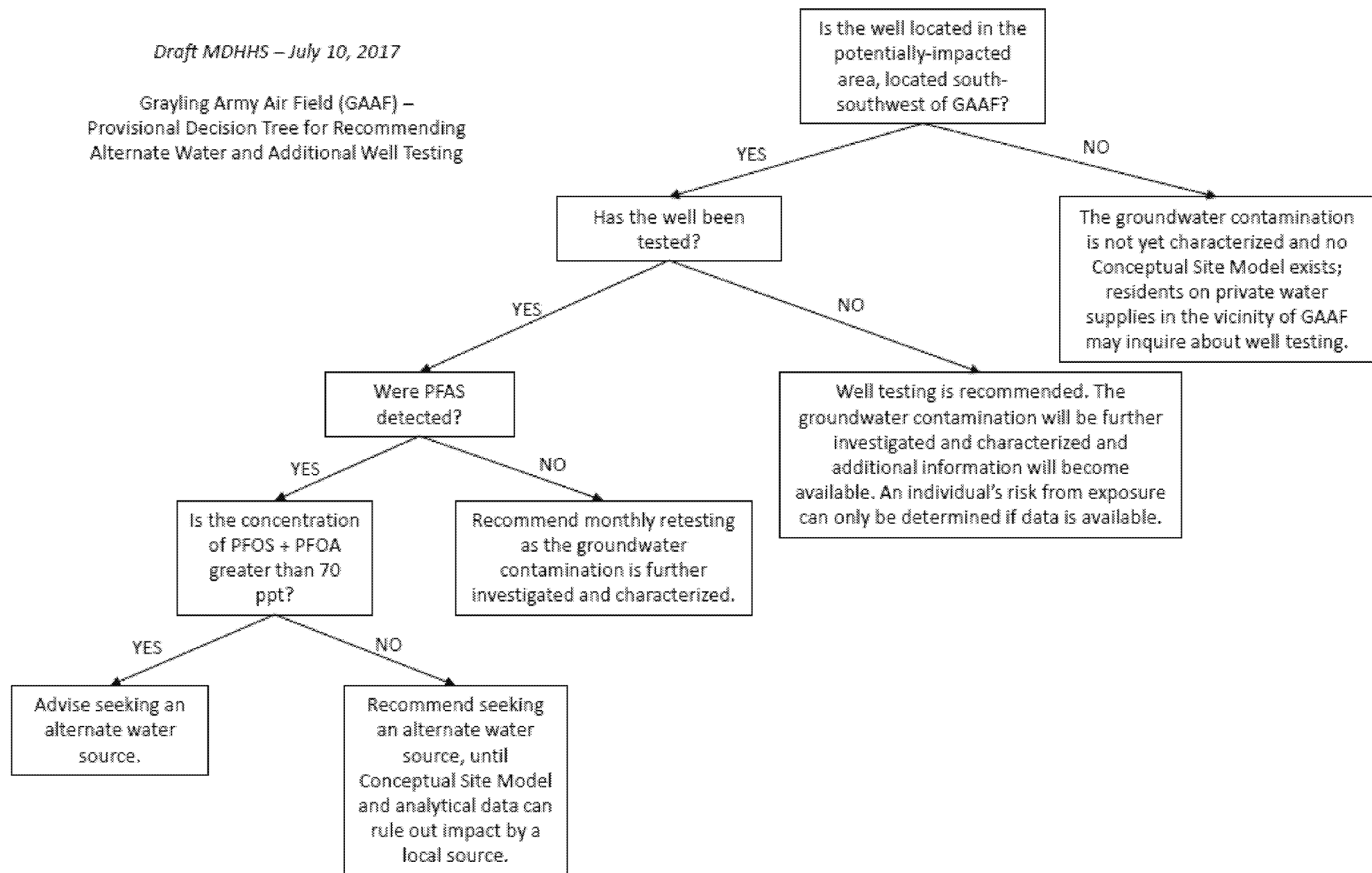
Is the well  
downgradient from a  
WAFB-originating PFAS  
groundwater plume?



\*Well owners may choose to connect to township water, if that is currently available.

Draft MDHHS – July 10, 2017

Grayling Army Air Field (GAAF) –  
Provisional Decision Tree for Recommending  
Alternate Water and Additional Well Testing





# Health Department Outreach

- ▶ Results letters
- ▶ Bottled water and filters
  - ▶ Funding funneled through MDHHS to locals
  - ▶ Local health implements
- ▶ Public meetings
- ▶ Fact sheets
- ▶ \*\*Belmont: Wolverine providing bottled water and filters

# More information:

- ▶ [www.michigan.gov/wurtsmith](http://www.michigan.gov/wurtsmith)
- ▶ [www.michigan.gov/campgrayling](http://www.michigan.gov/campgrayling)
- ▶ Belmont webpage coming soon
  
- ▶ Christina Bush
- ▶ 517-284-4794
- ▶ [bushc6@mi.gov](mailto:bushc6@mi.gov)